

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
18 August 2005 (18.08.2005)

PCT

(10) International Publication Number
WO 2005/074910 A1

- (51) International Patent Classification⁷: **A61K 31/198**, 33/00, 31/519, A61P 17/06
- (21) International Application Number: PCT/FI2005/000075
- (22) International Filing Date: 4 February 2005 (04.02.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 20040180 6 February 2004 (06.02.2004) FI
- (71) Applicant (for all designated States except US): **HELSINGFORS INSTITUTION FÖR BIOIMMUNTERAPI AB** [FI/FI]; c/o Oy Julius Tallberg, Karaåkersvägen 11, FI-02610 Esbo (FI).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **TALLBERG, Thomas** [FI/FI]; Enåsvägen 16 A 2, FI-00200 Helsingfors (FI).
- (74) Agent: **KOLSTER OY AB**; Iso Roobertinkatu 23, P.O. Box 148, FI-00121 Helsinki (FI).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMPOSITION, COMPRISING L-SERINE, L-ISOLEUCINE, FOLIC ACID AND TRACE ELEMENTS, FOR TREATING PSORIASIS

(57) Abstract: Biological medical means for treating psoriasis are disclosed. The invention relates to the use of L-serine (Ser) and L-isoleucine (Ile) for the manufacture of a pharmaceutical composition for treating or preventing psoriasis. The invention further relates to a pharmaceutical composition comprising said amino acids as active ingredients. Preferably the composition further comprises at least one essential trace element selected from the group consisting of chromium (Cr), tin (Sn), selenium (Se), vanadium (V), wolfram (W) and zinc (Zn), and folic acid.

WO 2005/074910 A1